## INTERNATIONAL SEARCH REPORT

tional Application No.../GB2004/002544

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01D33/03 B07B1/46 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) B01D B07B IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° US 6 530 482 B1 (WISEMAN MICHAEL D) 1-5,9,X 11 March 2003 (2003-03-11) 10,14 the whole document US 4 446 022 A (HARRY ALAN) 1,2,6,7 X 1 May 1984 (1984-05-01) column 4, line 51 - column 5, line 36; figures 3,4 EP 1 088 582 A (TUBOSCOPE I P INC) 1,2,6,7 X 4 April 2001 (2001-04-04) claim 1; figures 3,4 DE 42 10 770 A (KAUFMANN FRIEDHELM) 7 October 1993 (1993-10-07) column 5, line 52 - column 6, line 16; χ 1.2 figure 1 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. χ " Special categories of cited documents: "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-\*O\* document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 17/09/2004 7 September 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Hild, U

## INTERNATIONAL SEARCH REPORT

ational Application No

		, J./GB2004/002544
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 940 535 A (FISHER WILLIAM F ET AL) 10 July 1990 (1990-07-10) column 3, line 24 - column 4, line 36; figures 2-4	1-3, 9-11,16, 17
<b>A</b>	US 5 614 094 A (DEISTER E MARK ET AL) 25 March 1997 (1997-03-25) column 5, line 27 - column 6, line 32; claim 1; figures 2,4	1,2,6,7
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## INTERNATIONAL SEARCH REPORT

information on patent family members

ational Application No /GB2004/002544

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6530482	B1	11-03-2003	AU WO	5569901 A 0181014 A2	07-11-2001 01-11-2001
US 4446022	A	01-05-1984	GB GB	2055597 A 2055598 A ,B	11-03-1981 11-03-1981
			US	4306974 A	22-12-1981
EP 1088582	Α	04-04-2001	US	5641070 A	24-06-1997
			EP	1088582 A2	04-04-2001
•			AT	203178 T	15-08-2001
			DE	69613973 D1	23-08-2001
			DE	69613973 T2	08-11-2001
			DE	69628953 D1	07-08-2003
			DE	69628953 T2	24-12-2003
			WO	9633792 A1	31-10-1996
			EP	0822853 A1	11-02-1998
•			NO	974081 A	10-10-1997
DE 4210770	Α	07-10-1993	DE	4210770 A1	07-10-1993
US 4940535	A	10-07-1990	NONE		
US 5614094	Α	25-03-1997	NONE	<del></del>	
03 3014094		72-02-133/			